Hisense®

# LCD COLOUR TV

# USER'S MANUAL

## LCD 2003EU

Part No: IES041104

English

**Please read all the safety and operating instructions carefully before you begin.**

**SAFETY CLASS**

**This is an IEC safety class Ⅰ product and must be grounded for safety.**

# CONTENTS


Brief operating instructions ..... 1
Important safeguards ..... 3
Understanding the TV features ..... 3
Learning about your new TV ..... 4
Selecting a location for the TV ..... 5
Connecting your TV ..... 5
Connecting the audio/visual equipment ..... 5
Connecting the PC ..... 6
Connecting the aerial ..... 6
Using the remote control ..... 7
Preparing the remote control for use ..... 7
Shortcut keys operation ..... 8
Menu operation ..... 11
Using the Picture Parameters menu ..... 11
Using the Audio Setting menu ..... 11
Using the the Geometry menu ..... 11
Using the General Settings menu ..... 12
Using the Search menu ..... 14
Appendix ..... 15
Cleaning and care ..... 15
Trouble shooting ..... 16
The SCART interface ..... 17
Specificatians ..... 18

- The symbol of the dustbin barred means that this apparatus cannot be put at the rebus with not sorted waste domestic running.
- It is interdict to throw with not sorted waste domestic running, of deposited on the public thoroughfare or at any other place not envisaged to this end. This apparatus contains substances being able to be harmful for the environment.

- **The presence of certain substances can have harmful effects on the environment.**
- **This apparatus profits from a specific treatment of recycling for the re-use of the matters which make it up.**
- **This apparatus must be thrown only to the places envisaged. Inform near your authority to know the places of electronic collection of waste.**
- **Your sale point must collect this apparatus against the purchase of a new one for its recycling.**
- **The selective collection of waste electronics is to reduce the number of substance vermin not recycled and to thus contribute to the environment.**

# OSD language Settings

When you start using your set for the first time, the **Option** menu will be displayed on the screen as shown on the right.

1.Press the [▲or▼] button to select the **OSD language** .
2.Press the [◄or►] button to select the language that you want to use.

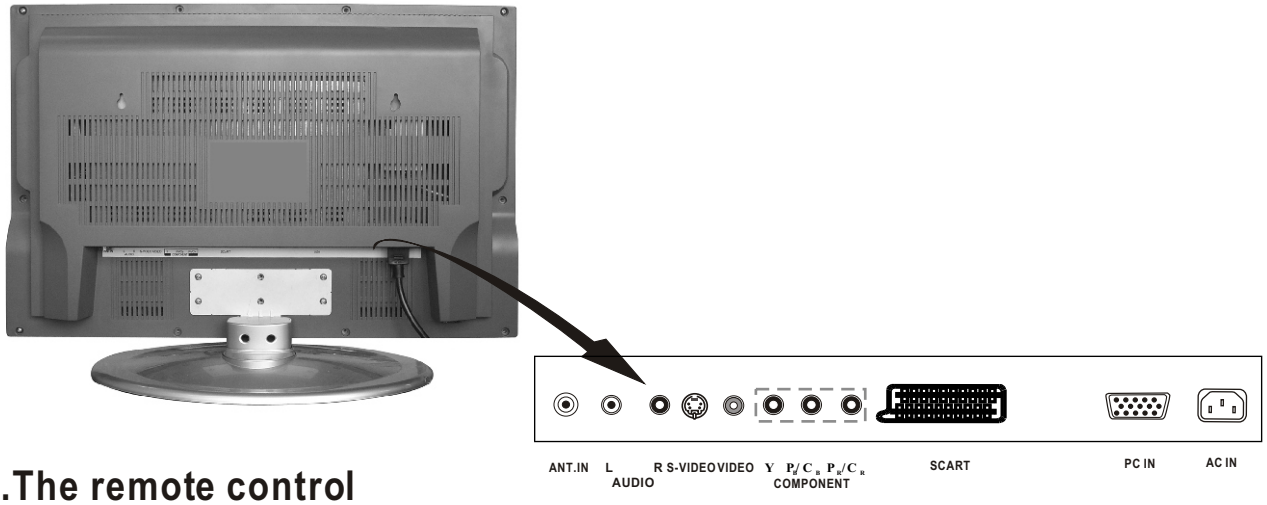
**Notes:** The **Option** menu is only displayed once when you turn on the TV. If you want to select this menu, please follow the instructions below:

1) Press the [**Menu**] button to enter the main menu.
2) Press the [◄or►] button to select the item **Option**.
3) Press the [▲or▼] button to select the **Reset Menu**.
4) Press the [◄or►] button to select the **ON**.
5).Turn on your TV again, the **Option** menu will be displayed on the screen.

# Brief Operating Instructions

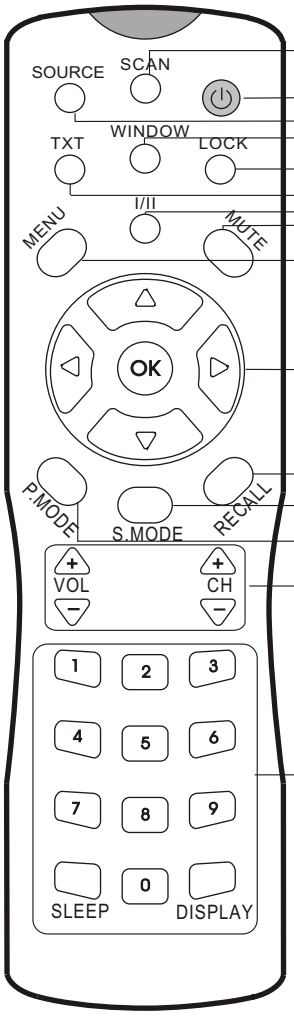
## 1.Connection

Connect the antenna lead or CATV cable or external equipments (such as Antenna, Cable TV, VCD, DVD, VCR, Set top box, etc.) to the corresponding terminals or interface on the TV rear (please refer to the owner's manual of the equipment to be connected as well) and confirm that the signal source is available and works normally.




## 2.The remote control

Open the back battery cover on the remote control and install two AAAsize batteries and then close the battery cover.




**SCAN**: Scan available channels
**POWER**: Power on/off
**SOURCE**: Select one of six input signal sources
**WINDOW**: Window Setting & Cancel key in Teletext mode
**LOCK**: Set child lock & Hold key in Teletext mode
**TXT**: Select Teletext or TV
**I/II**: NICAM /mono selection & Mix key in Teletext mode
**MUTE**: Mute the sound & Reveal key in Teletext mode
**MENU**: Call up the main menu & Index key in Teletext mode

**▲ / ▼** : Cursor up/down & channel up/down & page up/down in Teletext mode
**◄ / ►**: Select or adjust from a particular menu & Volume up/down
**OK**: Confirm selected function or return to the previous menu & Cyan Key in Teletext mode

**RECALL**: Return to previous channel & Yellow Key in Teletext mode
**S.MODE**: Select the sound mode & Green Key in Teletext mode
**P.MODE**: Select the picture mode & Red key in Teletext mode

**VOL+/-**: Volume up/down
**CH+/-**: Channel up/down

**CHANNEL NUMBER**: Direct Channel selection & Teletext page selection
**SLEEP**: Set the sleep timer & Sub code key in Teletext mode
**DISPLAY**: Display current Status information & Zoom key in Teletext mode & Display Timer of Teletext.

## 3.Switching on/off

1)Connect the TV to power outlet, if the power indicator is red, it means the TV is off now. You need to press the **POWER** switch or the **POWER** button on the remote control to turn on the TV, and the power indicator will display blue.

2)Press the power switch or the **POWER** button on the remote control to turn off the TV.

## 4.Signal source selection

1)Press the number [1-9] button or **CH+** or **CH-** button to select TV input;

1)press the **SOURCE** button to enter the Source menu.

1) Press the[ ▲ or ▼ ] button to select TV, Scart,Video, S-Video, VGAor Component.

## 5.Colour system selection

You can select the signal receiving method according to the following steps:

1) Press the **MENU** button to enter the main menu.

2) Press the [ ◄ or ► ] button to select the item **Search**, and press the [ ▼ ] button to enter **Search** menu.

3) Press the [ ▲ or ▼ ] button to select the item **Colour System**.

4) Press the [ ► ] button to toggle between **Auto, PAL** and **SECAM**.

## 6.Channel search

1) Press the **MENU** button to enter the main menu.

2) Press the [ ◄ or ► ] button to select the item **Search**, and press the [ ▼ ] button to enter **Search** menu.

3) Press the [ ▲ or ▼ ] button to select the item **Auto Search**.

4) Press the [ ► ] button to start auto searching channels.

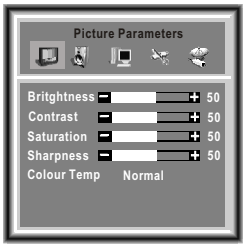
## 7.Picture adjustment

1) Press the **MENU** button to enter the main menu.

2) Press the [ ◄ or ► ] button to select the item **Picture Parameters**, and press the[ ▼ ] button to enter **Picture Parameters** menu.

3) Press the [ ▲ or ▼ ] button to select the item you want to adjust.

4) Press the [ ◄ or ► ] button to adjust the level.



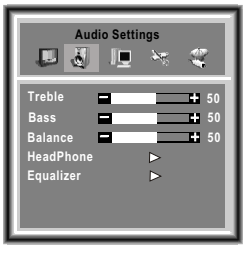

## 8.Audio adjustment

1) Press the **MENU** button to enter the main menu.

2) Press the [ ◄ or ► ] button to select the item **Audio Settings**, and press the[ ▼ ] button to enter **Audio Settings** menu.

3) Press the [ ▲ or ▼ ] button to select the item you want to adjust.

4) Press the [ ◄ or ► ] button to adjust the level.




*Note1: All buttons mentioned above are on the remote control unless indicated otherwise.*

*Note2: For more detailed information, please refer to the user's manual.*

**CAUTION**

RISK OF ELECTRIC SHOCK
DO NOT OPEN

**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER(OR BACK).NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the TV.

# Important safeguards

**To prevent fire or shock hazard, do not expose this appliance to rain or moisture.**

### FIRE AND SHOCK PRECAUTIONS

Adequate ventilation must be provided to prevent heat build up inside unit. Keep the inside of unit free from foreign objects, such as hairpins, nails, paper, etc. Do not build the set into a bookcase or other enclosures in which it would be poorly ventilated. Do not place it on carpet or a bed as low ventilation holes could become obstructed.

Do not set liquids, including flower vases and vessels filled with chemicals or water etc., on top of the unit as liquid could get inside the unit. If a hazardous object falls inside the TV set, unplug it immediately and call a qualified technician for removal.

To avoid damage to the power cord, never allow heavy objects such as the TV set itself to be placed on the power cord. Keep cord away from heat radiating appliances. Do not allow cord to become knotted or tangled. Do not lengthen the cord. When removing the power plug from the socket, always hold onto the plug, never pull by the cord.

### WARNING

Do not remove the back cover of the TV set. Accidental contact with high voltage components could result in electric shock.

If your set emits smoke or produces a strange sound or smell, continued operation is dangerous. Immediately turn off power and remove the power plug from the socket and contact your distributor.

During vacation or other occasions when you will not be using the set for an extended period, remove the power plug from the socket.

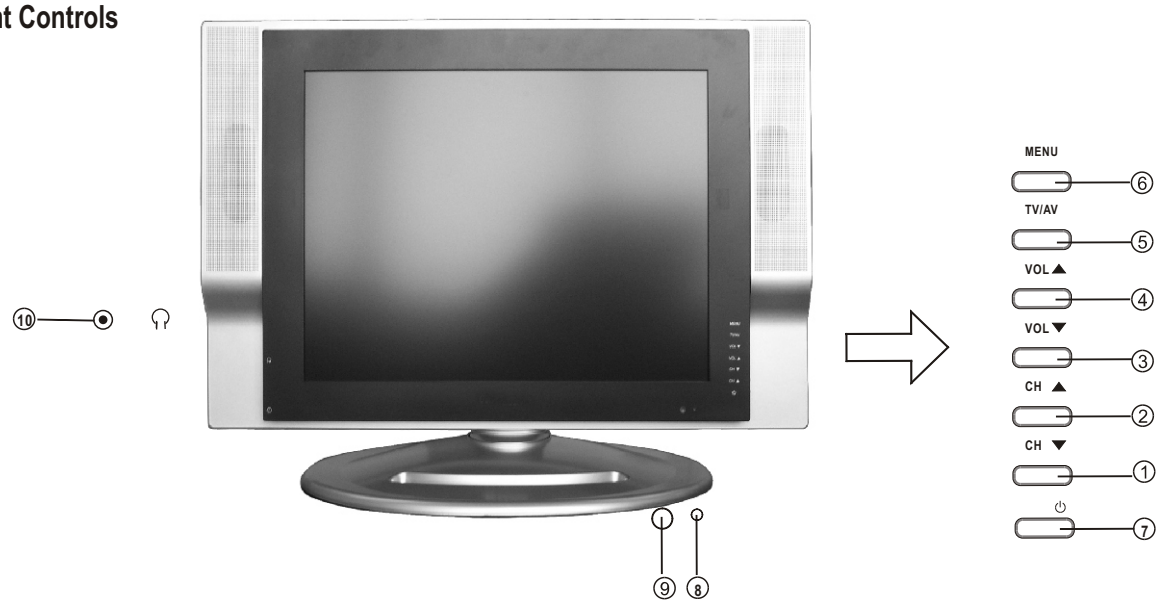
# Understanding the TV features

- Multimedia TV-receiver and PC display, all in one
- Wider view angle
- Digital display device--truthfully reproducing the images, without distortion or blurring, irrespective of magnetic and geomagnetic effect
- Auto tuning function with 200channels storage
- Multi-system (PAL, SECAM)
- Sleep/Wake timer
- NICAM/A2 and TELETEXT
- English/French/Italian/German/Spanish/Portuguese/Dutch on screen display
- Low power consumption and low radiation

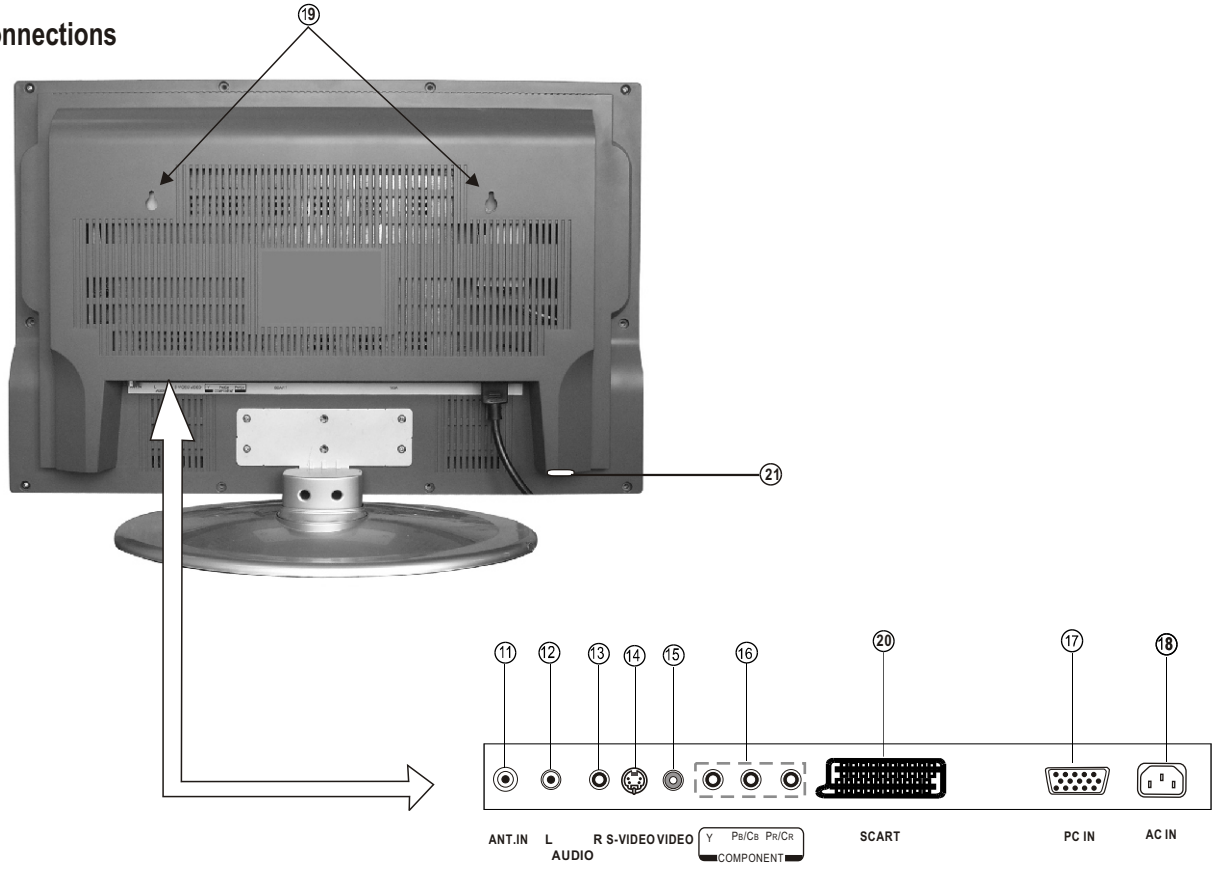
# Learning about your new TV

You can operate your TV by using the buttons on the front panel or the remote control. The terminals on the front and the back panel provide all the connections you will need to connect other equipment to your TV.

## Front Controls




## Back Connections




**Note: The above figures are for reference only, please refer to the actual units to determine their appearance.**

# Learning about your new TV

① Channel down / cursor down
② Channel up / cursor up
③ Volume down / cursor left
④ Volume up / cursor right
⑤ TV / AV / PC input select
⑥ MENU button
⑦ POWER button (standby)
⑧ POWER indicator
⑨ Remote Sensing Window
⑩ Headphone jack
⑪ CATV antenna input
⑫ AV audio input L
⑬ AV audio input R
⑭ S-Video input
⑮ AV Video input
⑯ Y PB/CB PR/CR input
⑰ PC VGA input
⑱ POWER Plug
⑲ Wall mounting locating hole
⑳ SCART
㉑ Power switch

# Selecting a location for the TV

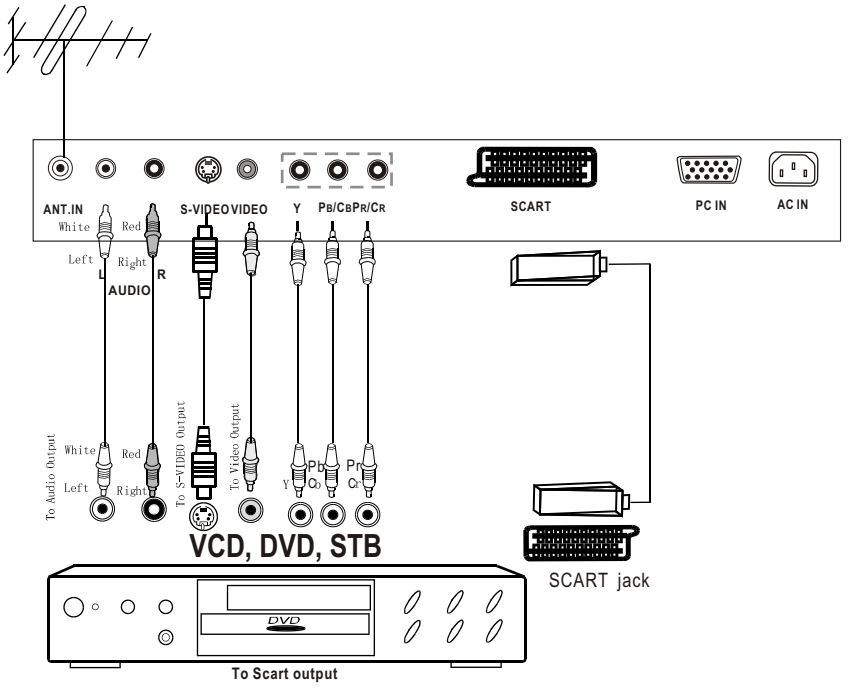
1)Place the TV on the floor or on a sturdy platform in a location where light does not directly hit the screen.
2)Place the TV far enough from the walls to allow proper ventilation. Inadequate ventilation may cause overheating, which may damage the TV.
NOTE: Please contact local dealer for wall mounting.

# Connecting your TV

**Caution: Do not plug the TV in until you have finished connecting all of your equipment.**

## Connecting audio/visual equipment

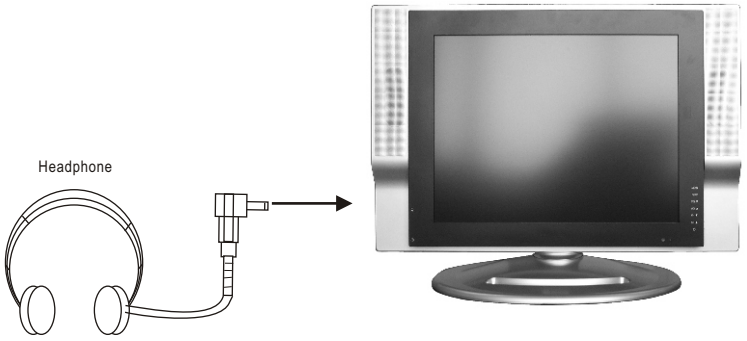
Follow the instructions below to hookup a VCR, DVD, satellite receiver, camcorder, audio amplifier, etc.
Use your remote control to select signal sources.



# Connecting your TV

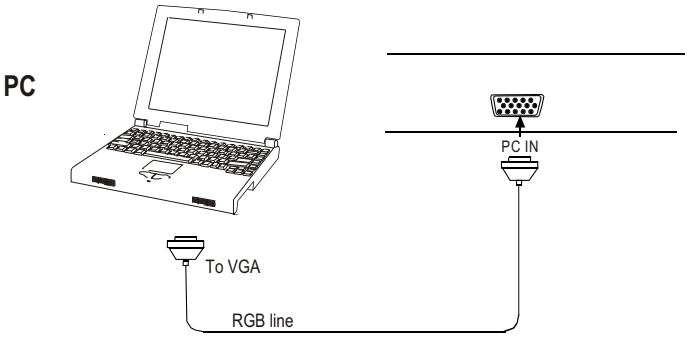
NOTE: 1) Headphones are not included.

2) No sound will be heard from the main unit speakers when a headphone mini-plug is connected into the headphone jack.




## Connecting the PC

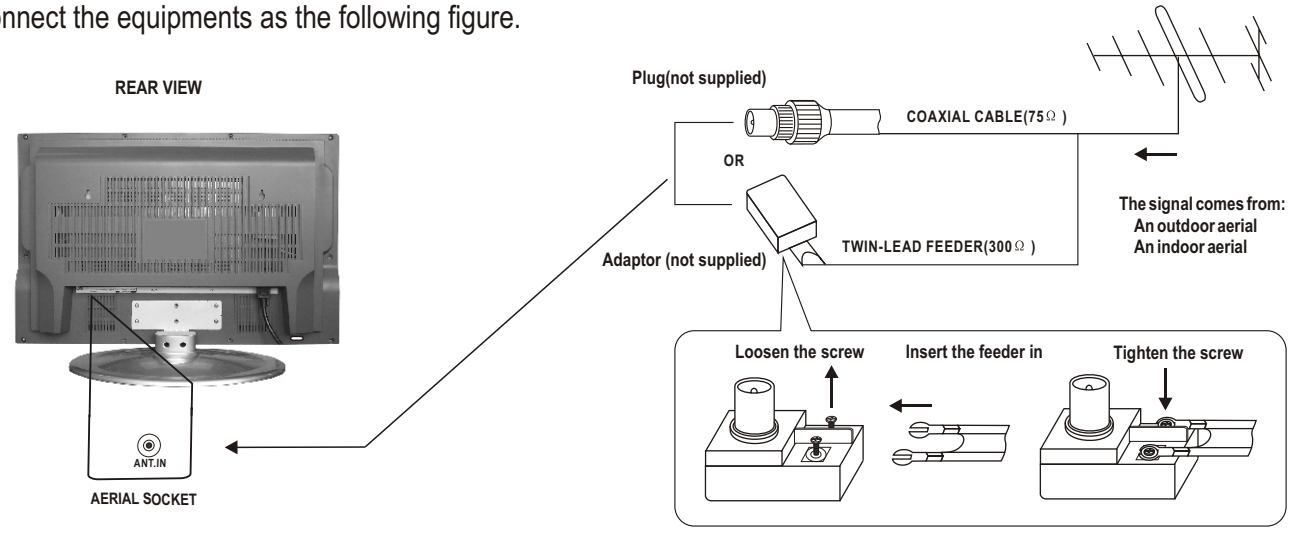
You can use your TV as a monitor for your PC by connecting through its 15pin standard RGB interface. Connect the devices as shown below.




**NOTE:** The refresh rate of your PC must be adjusted to 60Hz.

## Connecting the aerial

To enjoy the terrestrial signal transmitted by your local TV station, you need an indoor or outdoor aerial (not supplied). Perfect picture quality requires a good signal and generally means that an outdoor aerial must be implemented. The exact type and location of the aerial will depend on your particular area. Consult your local dealer or service personnel for best advice. If you are a subscriber of your local CATV net, the outdoor or indoor aerial is not needed. Connect the equipments as the following figure.

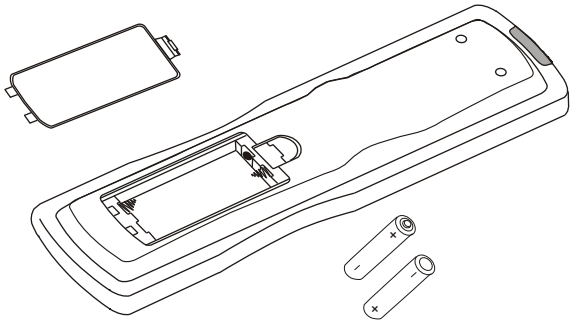


# Using the remote control

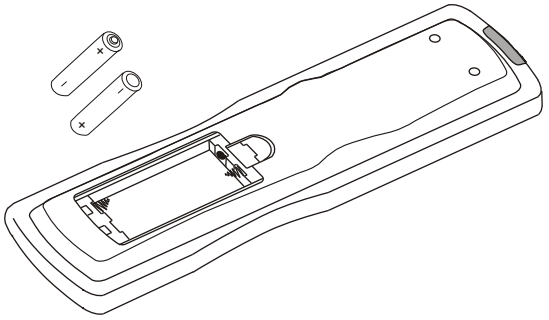
## Preparing the remote control for use

**Installing the remote control batteries**

1. Open the battery cover on the back of the remote control.



2. Install two AAA size(1.5V) batteries. Match the + and - signs on the batteries to the signs on the battery compartment.



3. Close the battery cover.

**Note:**

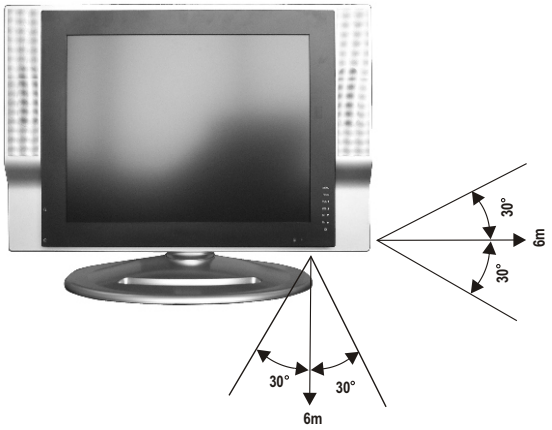
**1.Dispose of your batteries in a designated disposal area. Do not throw your batteries into fire.**

**2.Do not mix battery types or combine used batteries with new ones.**

**3.Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.**

**4.If you do not intend to use the remote control for a long time, remove the batteries.**

**5.The effective range of remote control is suggested in the figure.**



# Shortcut keys operation

## Connecting POWER

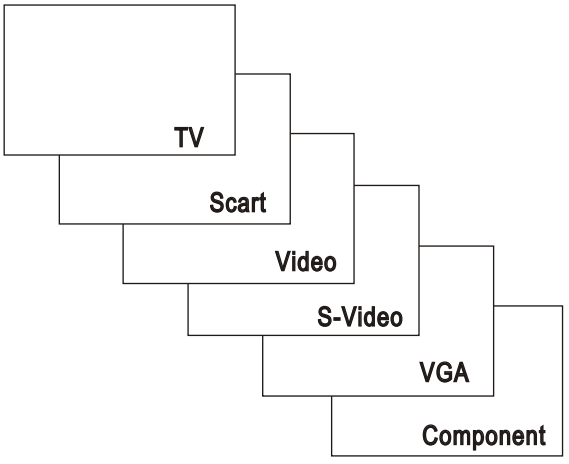
Notes:1.Use a commercially available AC plug , if necessary, depending on the design of the wall outlet.
2.Always release the AC power switch or remove the AC power plug from the outlet when not using for a long period of time.

## ON/OFF Standby

Press **POWER** on the remote control to turn off the LCD TV, the POWER indicator will turn red.
Press **POWER** again to turn the LCD TV back on, the POWER indicator will turn blue.

## Selecting the signal source

1. Turn on the power of the connected video equipment.
2 press the **SOURCE** button to enter the Source menu.Then press the[◄ or ►] button to select TV, Scart,Video, S-Video, VGA or Component .
3. The sound signal of all input signals except TV and Scart is input from same AUDIO INPUT terminals.




| DISPLAY | INPUT TERMINAL |
|---|---|
| TV | Antenna |
| Scart | Scart |
| Video | Video |
| S-Video | S-Video |
| VGA | PC IN(D-Sub15) |
| Component | Y $P_B/C_B$ $P_R/C_R$ |

**NOTE:** The explanation about **Video,**and **S-Video** signals.
1.In signal input, the **Video**and **S-Video** signals use same channel.
2.In the meantime, only one of these two signals can be input and received, the other signals must be unconnected. Otherwise, these signal will affect each other.

# Shortcut keys operation

## Adjusting sound volume

Press **VOL-** or **VOL+** on the remote control or ▼ **VOL** ▲ on the TV to decrease or increase the sound volume. The segment of the indicator will decrease or increase.

## Muting the sound

Press the **MUTE** on the remote control to temporarily turn off the sound. To restore the sound, press **MUTE** again. The mute function is automatically turned off when any of the following buttons are pressed: **POWER**, **VOL+.**

## Changing channels

To change the channel, you can

1.Press **CH -** or **CH+** on the remote control or ▼ **CH** ▲ on the TV.

2.Press the channel number buttons(0-9).

1) To select a one-digit channel : Press the 1-9 button to select channel directly.

2) To select a two-digit channel : Press a button from 1-9 to select the first number, then press a button from 0-9 again to select the second number. For example, to select channel 28, press the 2 button first , 2-- will appear on the screen, and then press the 8 button, 28 will appear on the screen for one second.

3) To select a three-digit channel: Press the 1 button to select the first number, then press buttons from 0-9 successively to select the other two numbers. For example, to select channel 120, press the button 1 , 1---- will appear on the screen, then press the button 2 and the button 0 successively.

## Displaying current channel number on screen

Press the **DISPLAY** button on the remote control, the current channel number and TV source mode will display on the top-right and bottom-right corner of the screen. It will last for 5 seconds, or you can press the **DISPLAY** button again to cancel it.

## Switching between two channels

Press the **RECALL** button on the remote control to return to the previous channel that you have just viewed.
Press the **RECALL** button repeatedly, the screen will alternate between the present and previous channels.

## Setting the child lock

Press the **LOCK** button to lock or unlock the TV.
When the TV is locked, the screen will turn to black background, and nothing can be viewed unless you press **LOCK** again to unlock it.

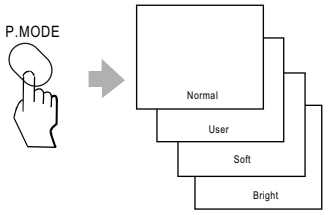
## Setting the sleep timer

Press **SLEEP** on the remote control to display **SLEEP TIMER** screen. Then you can press [ ◀ or ▶ ] continuously to progressively set the sleep timer for longer periods of time starting with 5 minutes, 10 minutes, 15minutes,....., 120 minutes and then back to 0 minute. Selecting Off turns the sleep timer off.

# Shortcut keys operation

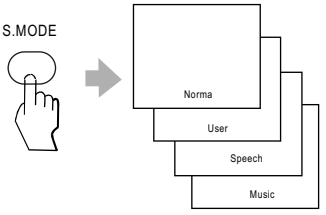
## Selecting the picture mode

You can select the picture quality instantly from among three preset modes and one user-set mode. Press the **P.MODE** button on the remote control repeatedly to select the desired picture quality.




## Selecting the sound mode

You can select the sound effect instantly from among three preset modes and one user-set mode. Press the **S.MODE** button on the remote control repeatedly to select the desired sound effect.




## Selecting NICAM/MONO broadcasts

You can enjoy watching TV while you listen to high-fidelity stereo sound with the NICAM feature.

Press the **I/II** button on the remote control to switch among **MONO**, **STEREO**, **DUAL I/II**, **NICAM STEREO** or **NICAM DUAL I/II**.

## Scanning all available channels

You can scan all available channels by press the **SCAN** button on the remote control. And you can press the **SCAN** button again to stop the scanning procedure.

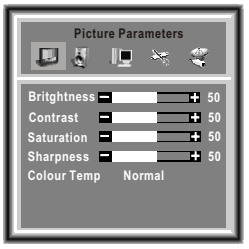
## Using TELETEXT

You can set Teletext function by press the **TXT** button on the remote control.

# Menu operation

## Using the Picture Parameters menu

### Adjust picture settings

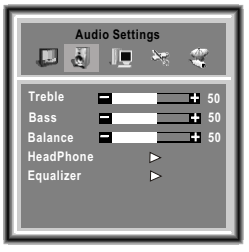



1) Press the **MENU** button to enter the main menu.
2) Press the [◀ or ▶] button to select the item **Picture Parameters**, and press the [ ▼ ] button to enter **Picture Parameters**menu.
3) Press the [▲ or ▼] button to select the item you want to adjust.
4) Press the [◀ or ▶] button to adjust the level.
5) The adjusted data is stored automatically in the user mode.

NOTE: 1) The disabled items will disappear. For example, **Hue** will disappear unless the valid input signal is NTSC mode.
2) The item **Colour Temp** is for reference only.

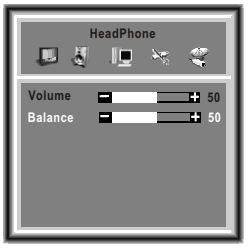
## Using the Audio Settings menu

### Adjust audio settings



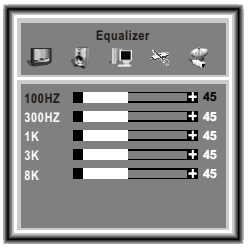

1) Press the **MENU** button to enter the main menu.
2) Press the [◀ or ▶] button to select the item **Audio Settings**, and press the [ ▼ ] button to enter **Audio Settings** menu.
3) Press the [▲ or ▼] button to select the item you want to adjust.
4) Press the [◀ or ▶] button to adjust the level.
5) The adjusted data is stored automatically in the user mode.

### HeadPhone settings




1) Press the **MENU** button to enter the main menu.
2) Press the [◀ or ▶] button to select the item **Audio Settings**, and press the [ ▼ ] button to enter **Audio Settings** menu.
3) Press the [▲ or ▼] button to select the item **HeadPhone**.
4) Press the [◀ or ▶] button to enter **HeadPhone** menu.
5) Press the [▲ or ▼] button to select the item you want to adjust.
6) Press the [◀ or ▶] button to adjust the level.

### Equalizer Setting



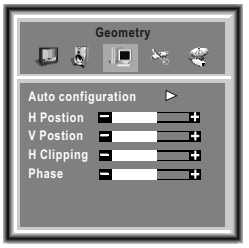

1) Press the **MENU** button to enter the main menu.
2) Press the [◀ or ▶] button to select the item **Audio Settings**, and press the [ ▼ ] button to enter **Audio Settings** menu.
3) Press the [▲ or ▼] button to select the item **Equalizer**.
4) Press the [◀ or ▶] button to enter **Equalizer** menu.
5) Press the [▲ or ▼] button to select the item you want to adjust.
6) Press the [◀ or ▶] button to adjust the level.

# Menu operation

## Using the Geometry menu

Geometry

1) Press the **MENU** button to enter the main menu.
2) Press the [ ◀ or ▶ ] button to select the item **Geometry**, and press the [ ▼ ] button to enter **Geometry** menu.
   Press the [ ▲ or ▼ ] button to select the item you want to adjust.
   Press the [ ◀ or ▶ ] button to change the value.




**H Clipping:** The item allows you to extend or shorten the TV image in the horizontal direction.
**H Position:** The item allows you to move the TV image in the horizontal direction.
**V Position:** The item allows you to move the TV image in the vertical direction.
**Auto Configuration :** When the image looks abnormal, you can try to choose the **Auto Configuration** item to correct the image.

**NOTE:** The disabled items will disappear. For example, **H Clipping** and **Phase** will disappear unless the valid input signal is **VGA** or **Component**.

## Using the General Settings menu

Timer

1) Press the **MENU** button to enter the main menu.
2) Press the [ ◀ or ▶ ] button to select the item **General Settings,** and press the [ ▼ ] button to enter **General Settings** menu.
3) Press the [ ▲ or ▼ ] button to select **Timer**.
4) Press the [ ◀ or ▶ ] button to enter the **Timer menu**.
   Press the [ ▲ or ▼ ] button to select the item you want to adjust.
   Press the [ ◀ or ▶ ] button to change the value.

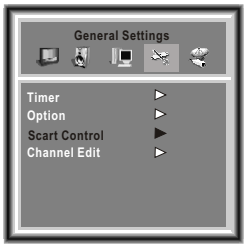
**Clock**: The item allows you to set the local time on the TV.
**On/Off :** The item allows the TV automatically to turns on or jump to a preset channel or switch to standby mode when the preset time comes
**Time:** The item allows you to set the preset time, turn on time ,standby time .
**Program:**the item allows you to preset the program .

# Menu operation

## Option

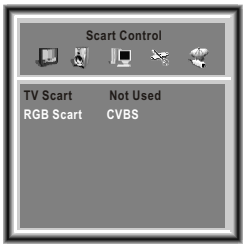
1) Press the **MENU** button to enter the main menu.
2) Press the [ ◀ or ▶ ] button to select the item **General Settings,** and press the [ ▼ ] button to enter **General Settings** menu.
3) Press the [ ▲ or ▼ ] button to select item **Option**.
4) Press the [ ◀ or ▶ ] button to enter the **Option** menu.
Press the [ ▲ or ▼ ] button to select the item you want to adjust.
Press the [ ◀ or ▶ ] button to change the value.

**OSD Language:** Press the [ ◀ or ▶ ] button to change the **OSD Language**.
**Teletextlang:** Press the [ ◀ or ▶ ] button to select the language of Teletext .
**Teletext E/W:** Press the [ ◀ or ▶ ] button to switch between the **West** and **East**.
**VCR Mode: Press the**[ ◀ or ▶ ] **button to switch between On and Off**
**NOTE: VCR Mode must be to turn On when the valid input signal is VCR, otherwise turn Off.**
**Reset Menu :** Press the [ ◀ or ▶ ] button to switch between **On** and **Off**.and if the item switch to On ,The **Option** menu will appear when turn on the TV.




## Scart Contral

1) Press the **MENU** button to enter the main menu.
2) Press the [ ◀ or ▶ ] button to select the item **General Settings,** and press the [ ▼ ] button to enter **General Settings** menu.
3) Press the [ ▲ or ▼ ] button to select **Scart Control**.
4) Press the [ ◀ or ▶ ] button to enter the **Scart Control**.
Press the [ ▲ or ▼ ] button to select the item you want to adjust.




**TV Scart**:Press the [ ◀ or ▶ ] button to select among Decoder、Satellite and Not Used.
**RGB Scart**:Press the [ ◀ or ▶ ] button to select among SCART、CVBS、YC and RGB.

## Channel Edit

1) Press the **MENU** button to enter the main menu.
2) Press the [ ◀ or ▶ ] button to select the item **General Settings,** and press the [ ▼ ] button to enter **General Settings** menu.
3) Press the [ ▲ or ▼ ] button to select **Channel Edit**..
4) Press the [ ◀ or ▶ ] button to enter the **Channel Edit** menu.
Press the [ ▲ or ▼ ] button to select the item you want to adjust.

# Menu operation

## Using the Search menu

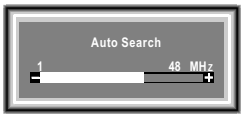
### Colour System

You can set colour system for different valid input signal.
1) Press the **MENU** button to enter the main menu.
2) Press the [◀ or ▶] button to select the item **Search**, and press the [ ▼ ] button to enter **Search**menu.
3) Press the [▲or▼] button to select **Colour System.**
4) Press the [◀ or ▶] button to toggle between **Auto**, **PAL** and **SECAM**.

### Sound System

1) Press the **MENU** button to enter the main menu.
2) Press the [◀ or ▶] button to select the item **Search**, and press the [ ▼ ] button to enter **Search** menu.
3) Press the [▲or▼] button to select **Sound System**.
4) Press the [◀ or ▶] button to toggle between **Auto**, **D/K**, **I**,**B/G**, **L / L'**.

### Auto Search




1) Press the **MENU** button to enter the main menu.
2) Press the [◀ or ▶] button to select the item**Search**, and press the [ ▼ ] button to enter **Search** menu.
3) Press the [▲or▼] button to select **Auto Search**.
4) Press the [◀ or ▶] button to start auto search.

### Manual Search

1) Press the **MENU** button to enter the main menu.
2) Press the [◀ or ▶] button to select the item **Search**, and press the [ ▼ ] button to enter **Search** menu.
3) Press the [▲or▼] button to select **Manual Search**.
4) Press the [◀ or ▶] button to start manual search.

### Skip

1) Press the **MENU** button to enter the main menu.
2) Press the [◀ or ▶] button to select the item **Search**, and press the[ ▼ ] button to enter **Search** menu.
3) Press the [▲or▼] button to select **Skip**.
4) Press the [◀ or ▶] button to skip or unskip the present channel.

NOTE: The 'skipped' channels cannot be accessed by **CH+** or **CH-** , but you can access them by digit button.

### Fine Tune

1) Press the **MENU** button to enter the main menu.
2) Press the [◀ or ▶] button to select the item **Search**, and press the [ ▼ ] button to enter **Search** menu.
3) Press the [▲or▼] button to select **Fine Tune**.
4) Press the [◀ or ▶] button to fine tune the present channel.

# Appendix

## Cleaning and care

**WARNING:** TV sets use high voltage. Do not try to remove the cabinet back. Refer servicing to qualified service technicians.

**To clean the TV screen:**

1) Unplug the TV to avoid possible shock hazard.
2) Use a damp cloth or clean cellulose sponge to clean the TV screen and trim. Do not allow water to spill into the cabinet or damage may occur.
3) Wipe off any excess moisture with a clean dry cloth.
4)Polish the cabinet with a quality furniture polish to maintain the finish and appearance of the cabinet.

**Caution**: Never use strong solvents such as thinner, benzene, or other chemicals on or near the cabinet. These chemicals can damage the finish of the cabinet.

## Customer important notice

1. When the TV can not be operated in some special situation, please unplug the power and restart.
2. Displaying a still picture for a long time will cause image sticking when the input signal is interlace. The image sticking will disappear when you turn off the TV for a moment. When using an interlaced input signal, we recommend not to display a still image for a long time.

# Appendix

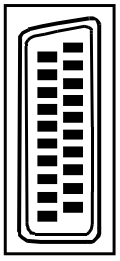
## Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the problem and some solutions.

| Problem | Solution |
|---|---|
| TV will not turn on | • Make sure the power cord is plugged in, then press POWER.<br>• The remote control batteries may be dead. Replace the batteries. |
| No picture, no sound | • Check the antenna/cable connections. |
| No sound, picture OK | • The sound may be muted. Press VOL+.<br>• The station may have broadcast difficulties. Try another channel. |
| Poor sound, picture OK | • The station may have broadcast difficulties. Try another channel |
| Poor picture, sound OK | • Check the antenna connections.<br>• The station may have broadcast difficulties. Try another channel.<br>• Adjust the picture from the menu. |
| Poor reception of broadcast channels | • The station may have broadcast difficulties. Try another channel.<br>• Check the antenna connections.<br>• If you are using a VCR, make sure the SOURCE button is set correctly. |
| Multiple images | • The station may have broadcast difficulties. Try another channel.<br>• Use a highly directional outdoor antenna. |
| Poor colour or no colour | • The station may have broadcast difficulties. Try another channel.<br>• Adjust the TINT and COLOUR in the menu. |
| The remote control does not operate | • Check to see if the SOURCE mode is properly set.<br>• There may be an obstruction between the remote control and the remote control sensor.<br>• The remote control batteries may be dead. Replace the batteries. |

# Appendix

## The SCART interface



Also known as Peritel, this standard provides a cheap multi-signal connector to domestic TV and other video equipment.

Caution:The output of video and svideo are always from turner of R F.

### Scart Connector Pinout Details

| SCART arrangement | | | |
|---|---|---|---|
| **Pin** | **Signal** | **Signal level** | **Impedance** |
| 1 | Audio output B (right) | 0.5V rms | <1kohm |
| 2 | Audio input B (right) | 0.5V rms | >10kohm |
| 3 | Audio output A (left) | 0.5V rms | <1kohm |
| 4 | Ground (audio) | - | - |
| 5 | Ground (blue) | - | - |
| 6 | Audio input A (left) | 0.5V rms | >10kohm |
| 7 | Blue input | 0.7V | 75ohms |
| 8 | Function select (AV control) | High (5 -12V) - AV mode<br>Low (0-2V) - TV mode | >10kohm |
| 9 | Ground (green) | - | - |
| 10 | | | |
| 11 | Green input | 0.7V | 75ohms |
| 12 | | | |
| 13 | Ground (red) | - | - |
| 14 | Ground (blanking) | - | - |
| 15 | Red input/Chrominance input | 0.7V/0.3V | 75ohms |
| 16 | RGB switching control | High (1-3V) - RGB<br>Low (0-0.4V)- Composite | 75ohms |
| 17 | Ground (video input & output) | - | - |
| 18 | Ground(RGB Switching Control) | - | - |
| 19 | Video output (composite) | 1V including sync | 75ohms |
| 20 | Video input (composite)<br>/Luminance input | 1V including sync | 75ohms |
| 21 | Common ground (shield) | - | - |

# Appendix

## Specifications

| | LCD2003EU |
|---|---|
| LCD panel | 20.1 INCHES TFT LCD |
| Television system | Multi- standard(PAL,SECAM) |
| Channel coverage | VHF-L: 1A-S8<br>VHF-H: S9-S38<br>UHF: S39-C57 |
| Analog RGB mode | 640X480/ 60Hz |
| Y Pb/Cb Pr/Cr mode | 480I/60Hz, 480P/60Hz, 576I/50Hz, 576P/50Hz,720P/60Hz |
| Resolution | 640X480 |
| Contrast | 350:1 |
| Brightness | 450cd/$m^2$ |
| Viewing angles | 176°(H)/176°(V) |
| OSD language | English/French/Italian/German/Spanish/Portuguese/Dutch |
| Power source | AC 100-240V , 50/60Hz |
| Power consumption | 55W |
| Audio power | 1.5W+1.5W |
| Lamp life | 50,000 hours |
| Video/Audio terminals | RF input: Cable/ Antenna RF ×1 — 75Ω VHF/UHF input<br>VIDEO input: VIDEO ×1 — 1 Vp-p/negative sync/75Ω input<br>S-VIDEO ×1 — Y...1 Vp-p/negative sync/75Ω input<br>C...0.283 Vp-p/negative sync/75Ω input<br>0.3 Vp-p/negative sync/75Ω input<br>Y Pb/Cb Pr/Cr×1 — 0.7 Vp-p/75Ω input<br>GRAPHIC input: PC IN(VGA) 15pin ×1 — 0.7 Vp-p/75Ω input<br>AUDIO input: AV audio×1<br>AUDIO output: MINI-JACK for STEREO (3.5 φ) ×1<br>SCART terminal: SCART(21PIN)×1 , include composite video、RGB、Y/C split and audio input, composite video and audio output |
| Dimensions | Width: 625mm Height: 460mm Depth: 300mm |
| Weight(net) | 12Kg |
| Supplied accessories | Remote control, AC cord, User's manual |

■ Design and specifications are subject to change without notice.